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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): ISHIBASHI, et al.

Appln. No. 10/019,408

Filed: December 28, 2001

For: TOOTH BLEACHING COMPOSITIONS AND METHODS FOR  
BLEACHING DISCOLORED TOOTH

Group: 1614

Examiner: S. Rose

SUPPLEMENTING RESPONSE

Mail Stop  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

June 9, 2003

Sir:

The Declaration (unsigned) submitted with the Amendment filed May 15, 2003, and discussed in the third full paragraph on page 21 of this Amendment filed May 15, 2003, is noted. It is indicated therein that the signed Declaration will be submitted in due course.

Accordingly, enclosed please find the executed Declaration, in connection with the above-identified application. Consideration of this executed Declaration, upon further examination of the above-identified application, is respectfully requested.

To the extent necessary, Applicants petition for an extension of time under 37 CFR 1.136. Please charge any shortage in fees due in connection with the filing of this paper, including extension of time fees, to the Deposit Account No. 01-2135

396.40960X00

(Case No. 396.40960X00) and please credit any excess fees to such Deposit  
Account.

Respectfully submitted,

ANTONELLI, TERRY, STOUT & KRAUS, LLP

A handwritten signature in black ink, appearing to read "William I. Solomon", written over a horizontal line.

William I. Solomon  
Registration No. 28,565

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : TAKURO ISHIBASHI ET. AL.

Serial No. : 10/019,408

Filed : July 3, 2000

For : TOOTH BLEACHING COMPOSITION AND METHODS FOR  
BLEACHING DISCOLORED TOOTH

Art Unit & Examiner : 1614, S. Rose

DECLARATION UNDER 37 C.F.R. 1.132

Honorable Commisioner of Patents and Trademarks

Waxhington, D.C. 20231

Sir:

I, the undersigned Hiroshi Kurata do hereby declare:

That I graduated from Department of Applied Chemistry of Gunma University in March 1992, entered Mitsubishi Gas Chemical Company Inc. in April 1992, and since then has been occupied in Improvement of Hydrogen Peroxide, Biodegradable Water-soluble Polymer and Biodegradable Polymer in the Corporate Research of the same company up to now;

That I joined the theme of the research after completion of the present invention and I am familiar with the subject matter disclosed in the said application;

That I have a good knowledge of the English language and have read and understood the application papers and the Examiner's Official Action as well as the reference cited therein in the prosecution of the above identified patent application;

and

That, in order to show the different between the subject matter of reference and the subject matter of the application, the following experiment was carried out.

#### Experiment

##### (1) Procedures of Experiment :

The same bleaching composition in Example 7,8 and 12 in the present specification was produced, which were composed of the constituents shown in Table-A as under.

Table-A

Ex.	Titanium Dioxide (%)				Thickening Agent		Oxidative Chemical	
	Trade Name	Crystal Type	Particle Diameter (nm)	Cont. (wt%)	Type	Cont. (wt%)	Type	Cont. (wt%)
7	TAYCA MT-150	Rutile	15	0.060	Hectorite	1.8	H <sub>2</sub> O <sub>2</sub>	5.8
8	TAYCA MT-150	Rutile	15	0.030	Hectorite	2.2	H <sub>2</sub> O <sub>2</sub>	3.2
12	TAYCA AMT-150	Rutile	15	0.100	Saponite	3.5	H <sub>2</sub> O <sub>2</sub>	15

The viscosity of the bleaching compositions was measured by Vismetron VGA-4 produced by Shibaura System Co., Ltd under the condition as under. The tested solution in the tall beaker was kept static for 15 minutes before the measurement.

The temperature of the water bath ;  $25 \pm 0.5^{\circ}\text{C}$

The temperature of the tested solution ;  $25 \pm 1.0^{\circ}\text{C}$

The measurement time ; 1 minute

The rotor number ; 2 or 3

The revolution speed ; 6 rpm

The tall beaker ; 100 ml

The weight of the tested solution ; 100 g

(2) Results of Experiment

The measurement results are shown in Table-B as under.

Table-B

Example	Viscosity (cp)
7	1100
8	2000
12	>20000

I declare further that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Hiroshi Kurata

Hiroshi Kurata

Date ; May 22, 2003